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Search for

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If your question is not covered, please contact <helpdesk@expasy.org>.

NCBI BLAST program reference [PMID:9254694]:
Altschul S.F., Madden T.L., Schäffer A.A., Zhang J., Zhang Z., Miller W., Lipman D.J. Gapped BLAST and PSI-BLAST: a new generation of protein database search programs. Nucleic Acids Res. 25:3389-3402(1997).

=====

Query: 80 AA

Date run: 2006-04-25 16:35:57 UTC+0100 on blast01.vital-it.ch

Program: NCBI BLASTP 2.2.13 [Nov-27-2005]

Database: UniProtKB

3,037,447 sequences; 998,712,776 total letters

UniProt Knowledgebase Release 7.5 consists of:

UniProtKB/Swiss-Prot Release 49.5 of 18-Apr-2006: 216380 entries

UniProtKB/TrEMBL Release 32.5 of 18-Apr-2006: 2807081 entries

[Taxonomic view](#)

[NiceBlast view](#)

[Printable view](#)

List of potentially matching sequences

Send selected sequences to

☐ Include query sequence

Db	AC	Description
----	----	-------------

- | | | | | |
|-------------------------------------|----|--------|------------|--|
| <input checked="" type="checkbox"/> | sp | P11439 | TOXA_PSEAE | Exotoxin A precursor (NAD-dependent ADP-rib. |
| <input checked="" type="checkbox"/> | tr | Q5EK40 | _VIBCH | Hypothetical exotoxin A [toxA] [Vibrio cholerae] |

- ☒ tr Q39QN3 _GEOMG Excinuclease ABC, C subunit [Gmet_3228] [Geobact
- ☒ sp Q747I7 UVRC_GEOSL UvrABC system protein C (Protein uvrC) (Exc.
- ☒ tr Q6MDL6 _PARUW Hypothetical protein [pc0609] [Parachlamydia sp.
- ☐ tr Q40YK6 _KINRA Phosphoesterase PHP, N-terminal:PHP, C-terminal
- ☐ tr Q6DAZ3 _ERWCT Hypothetical protein [ECA0109] [Erwinia carotovo
- ☐ tr Q3GJU1 _CHLVI Transposase, IS204/IS1001/IS1096/IS1165 [CvibDRA
- ☐ tr Q2E5S4 _BACCE Hypothetical protein [Bcer98DRAFT_0450] [Bacillu
- ☐ sp Q7TPG8 F19A1_MOUSE Protein FAM19A1 precursor (Chemokine-like .
- ☐ sp Q7Z5A9 F19A1_HUMAN Protein FAM19A1 precursor (Chemokine-like .
- ☐ tr Q9CPF8 _PASMU HofB [hofB] [Pasteurella multocida]
- ☐ tr Q65L06 _BACLD Hypothetical DNA-binding protein, putative transc
- ☐ tr Q25IT8 _MACFA Brain cDNA, clone: Qf1A-18513 [Macaca fascicular
- ☐ tr Q4RFA4 _TETNG Chromosome 8 SCAF15119, whole genome shotgun seq

Graphical overview of the alignments

[Click here](#)

to resubmit your query after masking regions matching PROSITE profiles or Pfam HMMs

([?](#) Help) (use ScanProsite for more details about PROSITE matches)

Profile hits

Pfam hits

Matches on query sequence

Submission

TOXA_PSEAE
Q5EK40_VIBCH
Q39QN3_GEOMG
UVRC_GEOSL
Q6MDL6_PARUW
Q40YK6_KINRA
Q6DAZ3_ERWCT
Q3GJU1_CHLVI
Q2E5S4_BACCE
F19A1_MOUSE
F19A1_HUMAN
Q9CPF8_PASMU
Q65L06_BACLD
Q25IT8_MACFA
Q4RFA4_TETNG

Submission

Identity 0 25 50 75 100%

Alignments

sp P11439 Exotoxin A precursor (NAD-dependent ADP-
TOXA_PSEAE ribosyltransferase) (EC

2.4.2.-) [eta] [*Pseudomonas aeruginosa*]

Score = 206 bits (469), Expect = 1e-52

Identities = 80/80 (100%), Positives = 80/80 (100%)

Query: 1 HRLHFPEGGSLAALTAHQACHLPLETFTRHRQPRGWEQLEQCGYPVQRLVALYLAA
HRLHFPEGGSLAALTAHQACHLPLETFTRHRQPRGWEQLEQCGYPVQRLVALYLAA
Sbjct: 271 HRLHFPEGGSLAALTAHQACHLPLETFTRHRQPRGWEQLEQCGYPVQRLVALYLAA

Query: 61 NQVDQVIRNALASPGSGGDL 80
NQVDQVIRNALASPGSGGDL
Sbjct: 331 NQVDQVIRNALASPGSGGDL 350

tr Q5EK40 Hypothetical exotoxin A [toxA] [*Vibrio cholerae*] 6
Q5EK40_VIBCH a

Score = 68.1 bits (149), Expect = 5e-11

Identities = 26/66 (39%), Positives = 42/66 (63%)

Query: 1 HRLHFPEGGSLAALTAHQACHLPLETFTRHRQPRGWEQLEQCGYPVQRLVALYLAA
+R+HF +G +++AL AH+ C +PLET R R+PR C Y Q +V+L++A
Sbjct: 291 QRIHFSKGNAMSALAAHRVCGVPLETLARSRKPRDLTDDLSCAYQAQNIVSLFVAT

Query: 61 NQVDQV 66
++D V
Sbjct: 351 SHLDSV 356

tr Q39QN3 Excinuclease ABC, C subunit [Gmet_3228] [*Geobacter*] 614
Q39QN3_GEOMG metallireducens AA
(strain GS-15 / ATCC 53774 / DSM 7210) align

Score = 33.6 bits (69), Expect = 1.1

Identities = 14/31 (45%), Positives = 18/31 (58%)

Query: 21 HLPLETFTRHRQPRGWEQLEQCGYPVQRLVA 51
H PLET R R+P QL QC P + L++
Sbjct: 151 HYPLETCRRRRRPCLFYQLRQCSAPCHGLIS 181

sp Q747I7 UvrABC system protein C (Protein uvrC) (Excinuclease ABC) 611
UVRG_GEOSL subunit C) AA
[uvrC] [*Geobacter sulfurreducens*] align

Score = 32.7 bits (67), Expect = 2.1

Identities = 18/51 (35%), Positives = 24/51 (47%), Gaps = 12/51 (2

Query: 21 HLPLETFTRHRQPRGWEQLEQCGYPVQRLV-----ALYLAARLS 59
H PLE+ R R+P QL QC P + L+ AL+LA + S
Sbjct: 151 HYPLESCRRRRRPCLFYQLRQCAAPCHGLISGEDYQSLAEGAALFLAGKNS 201

tr Q6MDL6 Hypothetical protein [pc0609] [Parachlamydia sp.
Q6MDL6_PARUW subsp.
Acanthamoeba sp. (strain UWE25)]

Score = 32.3 bits (66), Expect = 2.8

Identities = 19/62 (30%), Positives = 30/62 (48%), Gaps = 12/62 (1

Query: 12 AALTAHQACHLPLETFTRHRQPRGWEQLEQCGYPVQRLVALYLAARLSWNQVDQVI
A+++AH+ + LE + R YP +L+AL ARL ++ DQ I
Sbjct: 91 ASVSAHEGAYYILEAGLKNR-----YPQIQLIALNTLARLQSDKADQTI

Query: 72 AS 73
S
Sbjct: 139 GS 140

tr Q40YK6 Phosphoesterase PHP, N-terminal:PHP, C-terminal 381
Q40YK6_KINRA [KradDRAFT_1289] AA
[Kineococcus radiotolerans SRS30216] alignr

Score = 32.3 bits (66), Expect = 2.8

Identities = 17/46 (36%), Positives = 24/46 (52%), Gaps = 2/46 (4%

Query: 32 QPRGWEQLEQCGYPVQRLVALYLAAR-LSWN-QVDQVIRNALASPG 75
QP G + ++CG P +R+V + A R L W Q R A +PG
Sbjct: 336 QPYGCARAQECGVPAERIVTTWPAERVLEWTAQRRSAHRPARPAPG 381

tr Q6DAZ3 Hypothetical protein [ECA0109] [Erwinia carotovora
Q6DAZ3_ERWCT subsp.
atroseptica (Pectobacterium atrosepticum)]

Score = 31.9 bits (65), Expect = 3.8

Identities = 22/61 (36%), Positives = 28/61 (45%), Gaps = 14/61 (2

Query: 11 LAALTAHQACHLPLETFTRHRQPRGWEQLEQCGYPVQRLVALYLAARLSWNQVDQV
+AA+ HQA HL LE H + R P +RL+ +Y R NQV

Sbjct: 259 MAAVVPHQASHLSLE----HMRKR-----LAIPTERLIDIY---RYHGNQVAAS

Query: 71 L 71

L

Sbjct: 305 L 305

tr Q3GJU1 Transposase, IS204/IS1001/IS1096/IS1165 [CvibDRAFT_1521] 406 AA
Q3GJU1_CHLVI [Prosthecochloris vibrioformis DSM 265]

align

Score = 31.9 bits (65), Expect = 3.8

Identities = 11/16 (68%), Positives = 13/16 (81%)

Query: 57 RLSWNQVDQVIRNALA 72

RLSW VDQ++R ALA

Sbjct: 129 RLSWHSVDQIMRRALA 144

tr Q2E5S4 Hypothetical protein [Bcer98DRAFT_0450] [Bacillus cereus] 172 AA
Q2E5S4_BACCE subsp. cytotoxis NVH 391-98] align

Score = 31.4 bits (64), Expect = 5.1

Identities = 19/53 (35%), Positives = 28/53 (52%), Gaps = 2/53 (3%)

Query: 20 CHLPLETFTRHRQPRGWEQLEQCGYPVQRLVALYLAARLSWNQVDQVIRNALA 72

CH LE + + + PRG G +Q V+LY RL WN ++I+ A+A

Sbjct: 22 CHEVLEEYWKLK-PRGKRDHHWVGL-IQIAVSPLYHQRRNLNWNNGAAKMIKRAIA 72

sp Q7TPG8 Protein FAM19A1 precursor (Chemokine-like protein TAFA-1) 133 AA
F19A1_MOUSE [Fam19a1] [Mus musculus (Mouse)]

align

Score = 31.0 bits (63), Expect = 6.8

Identities = 10/20 (50%), Positives = 13/20 (65%)

Query: 1 HRLHFPEGGSLAALTAHQAC 20

H LH PEGG+ + AH+ C

Sbjct: 34 HHLHRPEGGTCEVIAAHRCC 53

sp Q7Z5A9 Protein FAM19A1 precursor (Chemokine-like protein TAFA-1) 133 AA

F19A1_HUMAN [FAM19A1] [Homo sapiens (Human)]

align

Score = 31.0 bits (63), Expect = 6.8

Identities = 10/20 (50%), Positives = 13/20 (65%)

Query: 1 HRLHFPEGGSLAALTAHQAC 20

H LH PEGG+ + AH+ C

Sbjct: 34 HHLHRPEGGTCEVIAAHRCC 53

tr Q9CPF8

HofB [hofB] [Pasteurella multocida]

461 AA

Q9CPF8_PASMU

align

Score = 31.0 bits (63), Expect = 6.8

Identities = 19/55 (34%), Positives = 27/55 (49%), Gaps = 3/55 (5%)

Query: 7 EGGSLAALTAHQACHLPLETFTRHRQPRGWEQLEQCGYP---VQRLVALYLAARL

E +L AL A Q HL L T P +L+Q G P +++ + L +A RL

Sbjct: 337 EESALIALRAAQGTGHLVLSTLHTNDAPSALTRLQQLGVPLHEIEQSLLLVVAQRL

tr Q65L06

Hypothetical DNA-binding protein, putative

225

Q65L06_BACLD

transcriptional regulator

AA

[BL03804] [Bacillus licheniformis (strain DSM 13 / ATCC 14580)]

align

Score = 31.0 bits (63), Expect = 6.8

Identities = 12/30 (40%), Positives = 16/30 (53%)

Query: 36 WEQLEQCGYPVQRLVALYLAARLSWNQVDQ 65

W ++Q P QR+ L LAA WN + Q

Sbjct: 151 WAAIQQMNVPFQRIRFLRLAADFNWNTIHQ 180

tr Q25IT8

Brain cDNA, clone: Qf1A-18513 [Macaca fascicularis (Crab

133

Q25IT8_MACFA

eating

AA

macaque) (Cynomolgus monkey)]

align

Score = 31.0 bits (63), Expect = 6.8

Identities = 10/20 (50%), Positives = 13/20 (65%)

Query: 1 HRLHFPEGGSLAALTAHQAC 20

H LH PEGG+ + AH+ C

Sbjct: 34 HHLHRPEGGTCEVIAAHRCC 53

tr Q4RFA4 Chromosome 8 SCAF15119, whole genome shotgun
Q4RFA4_TETNG sequence
[GSTENG00035413001] [Tetraodon nigroviridis (Green
puffer)]

Score = 30.6 bits (62), Expect = 9.2

Identities = 21/71 (29%), Positives = 33/71 (46%), Gaps = 11/71 (1

Query: 21 HLPLETFTRHRQPRGWEQLEQCGYPVQRLVALYLAARLSWNQVDQ-----
H+P +H+ R E+L+ G + + +A+R S N VD

Sbjct: 245 HIPKTATAKHKGRREGEELDSQGDASSQPDTISIASRTSQNTVDSKLSGGCELTV

Query: 70 ALASPGSGGDL 80

+AS GS G+L

Sbjct: 305 FVASNGSSGEL 315

Database: UniProtKB

Posted date: Apr 17, 2006 4:33 PM

Number of letters in database: 996,967,394

Number of sequences in database: 3,032,459

Database: /home/local/blastnet/database/EXPASY//UniProtKB.01

Posted date: Apr 17, 2006 4:34 PM

Number of letters in database: 1,745,382

Number of sequences in database: 4988

Lambda	K	H
0.340	0.176	0.689

Gapped

Lambda	K	H
0.299	0.0710	0.270

Matrix: BLOSUM80

Gap Penalties: Existence: 10, Extension: 1

Number of Hits to DB: 129,822,965

Number of Sequences: 3037447

Number of extensions: 2444038

Number of successful extensions: 13677

Number of sequences better than 10.0: 15

Number of HSP's better than 10.0 without gapping: 9

Number of HSP's successfully gapped in prelim test: 6

Number of HSP's that attempted gapping in prelim test: 13668

Number of HSP's gapped (non-prelim): 15

length of query: 80

length of database: 998,712,776
effective HSP length: 62
effective length of query: 18
effective length of database: 810,391,062
effective search space: 14587039116
effective search space used: 14587039116
T: 12
A: 25
X1: 15 (7.4 bits)
X2: 34 (14.7 bits)
X3: 57 (24.6 bits)
S1: 39 (21.7 bits)
S2: 62 (30.6 bits)
Wallclock time: 3 seconds



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L4: Entry 2 of 118

File: USPT

Apr 18, 2006

DOCUMENT-IDENTIFIER: US 7030215 B2

TITLE: Position dependent recognition of GNN nucleotide triplets by zinc fingers

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20030068675 A1

April 10, 2003

Description Paragraph (49):

Toxin molecules also have the ability to transport polypeptides across cell membranes. Often, such molecules are composed of at least two parts (called "binary toxins"): a translocation or binding domain or polypeptide and a separate toxin domain or polypeptide. Typically, the translocation domain or polypeptide binds to a cellular receptor, and then the toxin is transported into the cell. Several bacterial toxins, including Clostridium perfringens iota toxin, diphtheria toxin (DT), Pseudomonas exotoxin A (PE), pertussis toxin (PT), Bacillus anthracis toxin, and pertussis adenylate cyclase (CYA), have been used in attempts to deliver peptides to the cell cytosol as internal or amino-terminal fusions (Arora et al., J. Biol. Chem., 268:3334 3341 (1993); Perelle et al., Infect. Immun., 61:5147 5156 (1993); Stenmark et al., J. Cell Biol. 113:1025 1032 (1991); Donnelly et al., PNAS 90:3530 3534 (1993); Carbonetti et al., Abstr. Annu. Meet. Am. Soc. Microbiol. 95:295 (1995); Sebo et al., Infect. Immun. 63:3851 3857 (1995); Klimpel et al., PNAS U.S.A. 89:10277 10281 (1992); and Novak et al., J. Biol. Chem. 267:17186 17193 (1992)).

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L2: Entry 9 of 14

File: USPT

Oct 16, 2001

DOCUMENT-IDENTIFIER: US 6303120 B1

**** See image for Certificate of Correction ****

TITLE: Synthesis of glycoconjugates of the lewis y epitope and uses thereof

CLAIMS:

4. The method of claim 1, wherein the antibodies bind to Lewis Y expressing epithelial tumor cells.

[Previous Doc](#) [Next Doc](#) [Go to Doc#](#)

INTERNATIONAL SEARCH REPORT

International Application No PCT/US 98/14341		
A. CLASSIFICATION OF SUBJECT MATTER IPC 6 C12N15/62 A61K39/21 C07K16/10 A61K39/104 C12N15/70 A61K48/00		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 6 C12N A61K C07K		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 0 439 954 A (SERAGEN, INC.) 7 August 1991 see page 2, line 45 - page 3, line 50 see page 4, line 1 - line 40 see page 5, line 23 - line 53 see page 11, line 35 - page 12, line 26 <div style="text-align: center;">--- -/--</div>	1-5, 7, 8, 12, 15-20, 22-24, 26-43
<div style="display: flex; justify-content: space-between;"> <input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex. </div>		
* Special categories of cited documents : <div style="display: flex;"> <div style="flex: 1;"> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> </div> <div style="flex: 1;"> <p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</p> <p>"&" document member of the same patent family</p> </div> </div>		
Date of the actual completion of the international search <div style="text-align: center;">27 October 1998</div>		Date of mailing of the international search report <div style="text-align: center;">10/11/1998</div>
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3018		Authorized officer <div style="text-align: center;">Montero Lopez, B</div>

INTERNATIONAL SEARCH REPORT

In. tional Application No

PCT/US 98/14341

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>VIJAY . CHAUDHARY ET AL.: "Pseudomonas exotoxin contains a specific sequence at the carboxyl terminus that is required for cytotoxicity"</p> <p>PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA,</p> <p>vol. 87, no. 1, January 1990, pages 308-312, XP002079997</p> <p>WASHINGTON US</p> <p>see abstract</p> <p>see page 308, right-hand column, paragraph 2</p>	<p>1,3-5,7, 8,15-20, 22-24, 26-43</p>
Y	<p>MAJA LUKAC ET AL.: "Toxoid of Pseudomonas aeruginosa Exotoxin A generated by deletion of an ctive site residue"</p> <p>INFECTION AND IMMUNITY.,</p> <p>vol. 56, no. 11, November 1988, pages 3095-3098, XP002080494</p> <p>WASHINGTON US</p> <p>see abstract</p>	<p>2,12</p>
A	<p>S.J. CRYZ JR ET AL.: "Human immunodeficiency virus-1 principal neutralizing domain peptide-toxin A cnjugate vaccine"</p> <p>VACCINE.,</p> <p>vol. 13, no. 1, January 1995, pages 67-71, XP002079998</p> <p>GUILDFORD GB</p> <p>cited in the application</p> <p>see abstract</p> <p>see page 67, left-hand column, paragraph 1 - right-hand column, paragraph 1</p> <p>see page 69, left-hand column, paragraph 2</p> <p>see page 70, right-hand column, paragraph 2 - page 71, left-hand column, paragraph 1</p>	
P,X	<p>DAVID J. FITZGERALD ET AL.: "Characterization of V3 loop-Pseudomonas Exotoxin chimeras"</p> <p>JOURNAL OF BIOLOGICAL CHEMISTRY,</p> <p>vol. 273, no. 16, 17 April 1998, pages 9951-9958, XP002079999</p> <p>MD US</p> <p>see the whole document</p>	<p>1-43</p>
T	<p>WO 98 20135 A (THE GOVERNMENT OF THE UNITED STATES OF AMERICA) 14 May 1998</p> <p>see page 4, line 4 - line 32</p> <p>see page 22, line 40 - line 50</p> <p>see page 23, line 22 - page 25, line 2</p> <p>see page 27, line 18 - page 29, line 5</p> <p>see page 31, line 2 - page 32, line 12</p>	

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 98/ 14341

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
Remark: Although claims 24-26, 33-38, and 40-43
are directed to a method of treatment of the human/animal
body, the search has been carried out and based on the alleged
effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such
an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all
searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment
of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report
covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is
restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 98/14341

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 439954	A	07-08-1991	AU 657087 B	02-03-1995
			AU 7168991 A	24-07-1991
			AU 8032194 A	27-04-1995
			CA 2071969 A	23-06-1991
			JP 5502880 T	20-05-1993
			WO 9109871 A	11-07-1991
			US 5668255 A	16-09-1997
WO 9820135	A	14-05-1998	AU 5247498 A	29-05-1998